

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-44 (canceled)

Claim 45 (previously presented): A peptide comprising an amino sequence provided by Formula II (SEQ ID NO: 39):

Q T X¹ T V G G Q A S X² Q A S S L T X³ L F S X⁴ G X⁵ K Q N, wherein
X¹ is either H or T;
X² is either H or R;
X³ is either S, G, or R;
X⁴ is either P, L or Q; and
X⁵ is either A, S, or P.

Claim 46 (previously presented): A peptide comprising an amino sequence provided by Formula I (SEQ ID NO: 1):

X¹ T X² X³ X⁴ G G X⁵ X⁶ X⁷ X⁸ X⁹ X¹⁰ X¹¹ X¹² L X¹³ X¹⁴ L F X¹⁵ X¹⁶ G X¹⁷ X¹⁸ Q X¹⁹,
wherein,
X¹ is Q or T,
X² is H, T or R,
X³ is V or T,
X⁴ is T or V,
X⁵ is S, V or Q,
X⁶ is A, Q or V,
X⁷ is A, G or S,
X⁸ is R or H,
X⁹ is T, A or Q,
X¹⁰ is T, A or V,
X¹¹ is S, H or R,
X¹² is G, S or R,
X¹³ is T or V,
X¹⁴ is S, G or R,
X¹⁵ is S or R,
X¹⁶ is P, L, S or Q,
X¹⁷ is A, P or S,
X¹⁸ is S, K or Q, and

X¹⁹ is N or K.

Claim 47 (previously presented): A peptide according to claim 46 with an amino acid sequence selected from the group consisting of:

- 2.11 QHTTVGGVQGRQAHSLSLFGSPGASQN (SEQ ID NO: 2)
- D6 QTTTTGGQVSHATHGLTGLFSLGPQQK (SEQ ID NO: 3)
- D18 QHTTTGGSSASHQASGLTRLFSQGPSQN (SEQ ID NO: 4)
- F63 QTHVVGGQGRQVSSLVSLFSPGASQK (SEQ ID NO: 5)
- G31 TTHTVGGSVARQVHSLTGLFSPGPQQK (SEQ ID NO: 6)
- L13 QHTTVGGSQAHAAHSLTRLFSPGSSQN (SEQ ID NO: 7)
- M69 QTTVVGGSQARAAHGLVSLFSLGSKQN (SEQ ID NO: 8)
- Z61 QTHVVGGVQGRQTSGLVGLFSPGSKQN (SEQ ID NO: 9)
- R9 QTTVVGGSQSHTVRGLTSLFSPGASQN (SEQ ID NO: 10)
- B26 TTTTTGGQAGHQAHSLSLFGSPGASQK (SEQ ID NO: 11)
- B22 QTHVVGGVQSHQTSGLTSLFSPGASQK (SEQ ID NO: 12)
- B35 QHTTTGGVQGHQTSRLTSLFSPGPSQN (SEQ ID NO: 13)
- D29 TTTTVGGQAAHQTHSLTSLFSPGAKQN (SEQ ID NO: 14)
- D33 TTTTTGGQQSHTVHGLVGLFSPGSKQN (SEQ ID NO: 15)
- E26 QHTTVGGVQAHTVRGLTSLFSPGSSQN (SEQ ID NO: 16)
- F80 QHTTTGGQAGHTASSLTGLFSPGAKQN (SEQ ID NO: 17)
- F19 QTTTVGGVASHQAHSLSLFGSPGAKQK (SEQ ID NO: 18)
- F78 QHTTTGGQAGHQAHSLSLFGSPGAKQN (SEQ ID NO: 19)
- H1 QHTTTGGVVGHATSGLTSLFSPGPSQK (SEQ ID NO: 20)
- L76 TTTTVGGQASHQTSSLTGLFSPGSKQN (SEQ ID NO: 21)
- B24 TTTTVGGQASHTTSSLTGLFSPGASQK (SEQ ID NO: 37)
- M63 QHTTTGGVVSHQTRSLVGLFSPGPQQN (SEQ ID NO: 38)
- M27 QTTTTGGVASHAAHRLTSLFSPGPQQK (SEQ ID NO: 22)
- M122 QTTTTGGSSASHAVSSLTGLFSPGSKQN (SEQ ID NO: 23)
- M129 QTTVVGGSSAGHTASSLVGLFSPGSKQN (SEQ ID NO: 24)
- M119 TTTTVGGQASHTTSSLTGLFSPGSQQN (SEQ ID NO: 25)

R5 QTHTTGGQASHQVSSLVSLFSPGAKQK (SEQ ID NO: 26)
R6 TTTTGGQVGHQTSGLTGLFSPGAQQN (SEQ ID NO: 27)
R27 TTHVVGGSSASHAVRGLTSLFSPGSSQN (SEQ ID NO: 28)

Claim 48 (previously presented): A peptide of any of the following amino acid sequences:

B14 QTTVTGQASHTTSSLTGLFSPGASQK (SEQ ID NO: 29)
B33 ATHATGGQAAHSTHSLTSLFSPGASQK (SEQ ID NO: 30)
F81 QTHVTGGSAAHQTGGLTGLFSPGPKQN (SEQ ID NO: 31)
B18 QTTVVGGQASHVSRSLTGLFSPGSSQK (SEQ ID NO: 32)
E19 TTHTGGQQAHTTSRLVSLFSPGASQK (SEQ ID NO: 36)
L72 QTTTAAHTTSGLTGLFSPGAKQN (SEQ ID NO: 33)
D20 QTHVTGVAGRQTSGLVSLFSPGSSQN (SEQ ID NO: 34)
D30 QGGVQGHTTSSLVGLFSPGSQQN (SEQ ID NO: 35)

Claims 49-97 (canceled):

Claim 98 (previously presented): The peptide of claim 45, wherein said peptide consists of said amino acid sequence.

Claim 99 (previously presented): The peptide of claim 46, wherein said peptide consists of said amino acid sequence.